

**Notice of Allowability**

Application No.	Applicant(s)	
10/509,198	ANTTALAINEN, OSMO	
Examiner	Art Unit	
Nikita Wells	2881	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to "Response to Restriction Requirement" received 31 August 2007.
2.  The allowed claim(s) is/are 29-47,53 and 54.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 06/29/05
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

Nikita Wells  
Primary Examiner  
Art Unit: 2881

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 29-47 and 53-54 are allowed.
2. The following is an examiner's statement of reasons for allowance:

With respect to the independent claims 29, 39, and 53, prior art fails to disclose or make obvious, in combination with other recited features of the claim limitations, a gas measuring device for identifying substances in flowing gas, based on ion mobility, wherein it has a cell structure comprising a flow channel for controlling a gas flow, a reference cell arranged to form a reference signal, a ionization section for achieving the ionization effect into the sample gas, and an analysis cell arranged to form an analysis signal so that the reference cell, the ionization section, and the analysis cell are located in said order in the direction of flow of the sample gas in the flow channel.

The unique aspect of the invention, which was not found in prior art but is disclosed in all the independent claims, is to have the analysis cell arranged to form an analysis signal so that the reference cell, the ionization section, and the analysis cell are located in said order in the direction of flow of the sample gas in the flow channel.

The dependent claims 30-38, 40-47, and 54, are allowable by virtue of their dependence upon the independent claims 29, 39, and 53, respectively.

### *Conclusion*

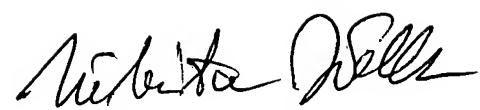
3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kaufman et al. (7,045,776 B2) disclose an apparatus for the identification of chemical species by the measurement of the ion mobility as a function of high electric field and

for generating unique compound-dependent signatures based on ion mobility. Miller et al. (7,211,791 B2) disclose a method and apparatus for chromatographic high field asymmetric waveform ion mobility spectrometry including a gas chromatographic analyzer section intimately coupled with an ionization section.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The central fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Nikita Wells  
Primary Examiner, Art Unit 2881  
October 7, 2007